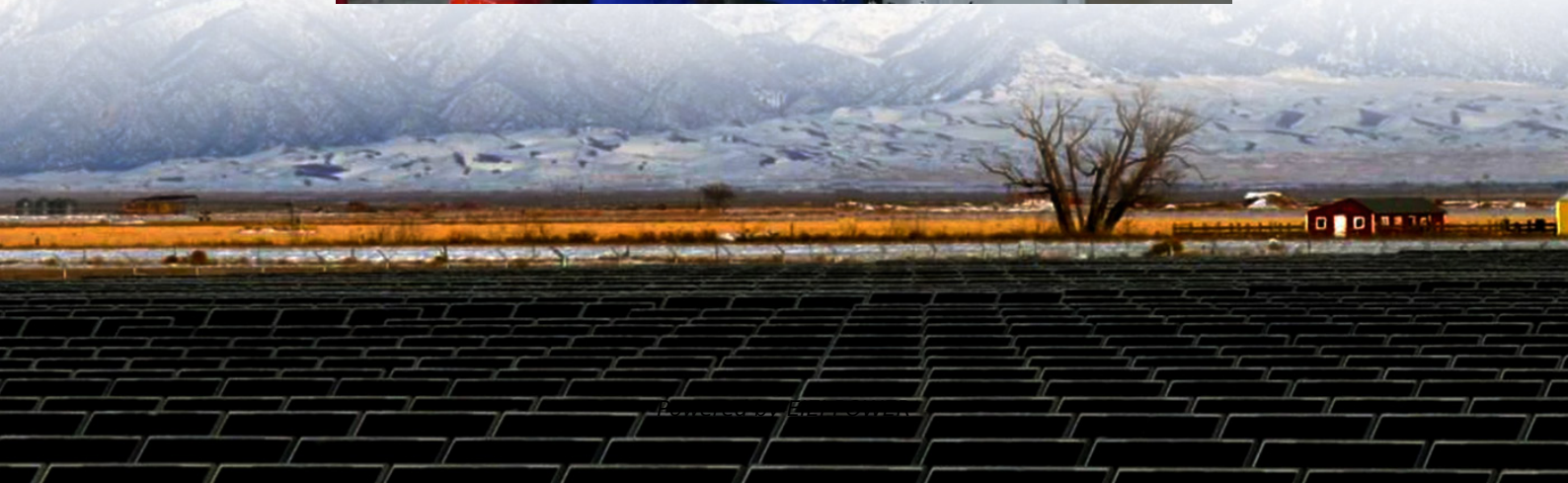


Automatic voltage control of solar container energy storage system





Overview

Can photovoltaic energy storage power stations be controlled efficiently?

At the same time, the coordinated control problem of multiple voltage and reactive power resources was fully considered. By establishing an optimal voltage control model, precise control of the power station voltage was achieved, significantly improving the coordinated control effect of photovoltaic energy storage power stations.

What is the optimal energy storage power of photovoltaic energy storage?

The optimal energy storage power of photovoltaic energy storage power station is obtained based on the real-time data such as the charge state of the storage system. This paper constructs an optimal voltage control model through ADP algorithm and obtains the optimal coordinated control strategy.

What is a photovoltaic energy storage power station?

Photovoltaic energy storage power station is a combined operation system including distributed photovoltaic system and energy storage system. The overall structure of a photovoltaic storage power station is shown in Figure 1. Figure 1. Photovoltaic energy storage power station.

What is the mathematical model of a photovoltaic energy storage power station?

The mathematical model expression of the photovoltaic system in the photovoltaic energy storage power station is as follows: In formula (1), N_P and N_S represent the number of series capacitors and parallel capacitors in a photovoltaic system respectively. U_{pv} and I_{pv} represent the total voltage and current, respectively.



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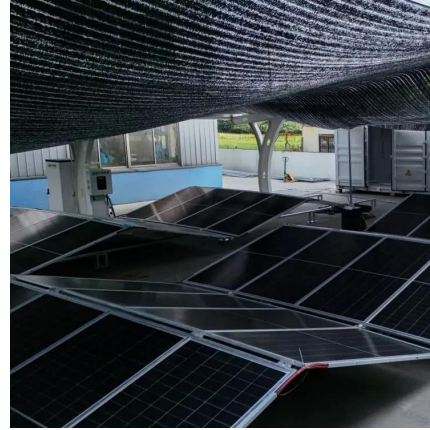
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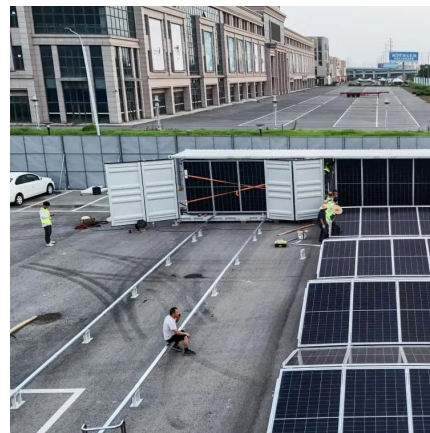


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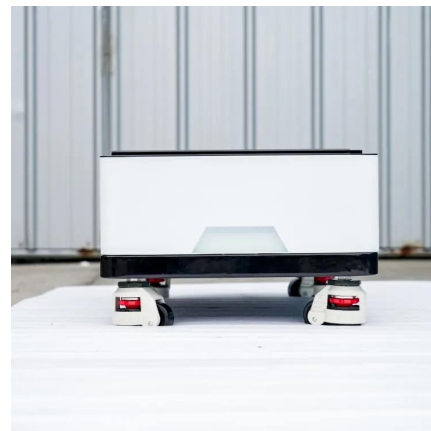


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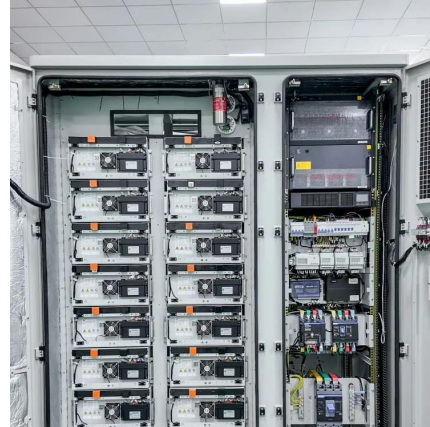
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